

Name: \_\_\_\_\_

**Delaware Department of Agriculture  
Weights and Measures**

**Examination for Registered Vehicle Tank Meter Technicians**

1. The Delaware Weights and Measures Act is Title 6 Chapter\_\_\_\_\_.
2. The Act gives weights and measures officials authority over the following equipment:
  1. Devices used solely by a manufacturer for its own purposes
  2. Devices used in the buying and/or selling of a product
  3. Devices used only in fueling a fleet of company trucks and cars.
3. The test measures used by technicians are required to be certified by a certified NIST laboratory:
  1. As often as determined by the Department of Agriculture
  2. Every two years
  3. Every year
  4. Every three years
4. Following an inspection and test, the weights and measures inspector has the authority to take the following official action:
  1. Approve
  2. Reject
  3. Condemn and seize for evidence
  4. All of the above
5. A registered service technician has the authority to:
  1. Remove from a device an official weights and measures seal or tag
  2. Take a device out of service when it is found to be out of tolerance
  3. Place a device into commercial service following corrective service
  4. All of the above
6. A registered service technician is required to notify weights and measures (send in a Placed in Service Report) within\_\_\_\_\_day (s) after placing a device into service.
7. A registered service technician should have a current year Handbook\_\_\_\_\_.
8. The General Code of Handbook 44 applies to all commercial devices. Paragraphs in The General Code begin with the letter\_\_\_\_\_. Paragraphs in the codes begin with \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.

9. Handbook 44 paragraphs are “retroactive” or “non-retroactive.” In G-S.1., subparagraphs (a) and (b) are\_\_\_\_\_. Subparagraphs (c), (d), (e), and (f) are\_\_\_\_\_.
10. All commercial devices must be marked with the name, initials or trademark of the (a) manufacturer and (b) the model designation.
1. True
  2. False
11. Meters that are predominantly in error favorable to the owner/operator (test measure readings are minus). They are considered to be improperly maintained according to Paragraph G-UR\_\_\_\_\_.
12. Paragraph G-UR\_\_\_\_\_states that, “Whenever equipment is adjusted, the adjustments shall bring performance errors as close as practicable to\_\_\_\_\_.
13. Tolerances applied to devices being placed into service for the first time, being officially tested for the first time, after calibration, and following major service or overhaul is \_\_\_\_\_ tolerance.
14. Tolerances applied to devices in service that are being routinely tested is \_\_\_\_\_tolerance.
15. The requirement for the repeatability tolerance is\_\_\_\_\_percent of the absolute value of maintenance tolerance.
16. The tolerance for a 100-gallon special test is  $\pm$  \_\_\_\_\_cu. in.
17. The maintenance tolerance for a 100-gallon test is \_\_\_\_\_cu. in.
18. An adequately reinforced discharge hose is required for vehicle tank meters.  
(Paragraph\_\_S\_\_\_\_\_)
19. Metering systems shall be equipped with an effective vapor and air eliminator.  
(Paragraph\_\_S\_\_\_\_\_)
20. An effective \_\_\_\_\_, shall be provided to prevent the draining of the discharge hose between deliveries by the dispenser.  
(Paragraph\_\_S\_\_\_\_\_)

21. For an accurate reading, the test measure must be level. A technician reads the bottom or top surface of the meniscus?\_\_\_\_\_.

22. Retail meters and all attachment s (e.g. hoses, hose retractors, nozzles, displays, couplings, impact/fire valves, wiring, etc.) shall be maintained in proper operating condition throughout the term of service.

(Paragraph\_\_G-UR\_\_\_\_\_)

23. If provisions have been made for sealing (a physical seal), the device shall be sealed.

(Paragraph\_\_G-UR\_\_\_\_\_)

24. Measuring elements shall not be adjusted to compensate for defective parts. Defective parts must be repaired before adjustments are undertaken

(Paragraph\_\_G-UR\_\_\_\_\_)

25. All weighing and measuring elements shall be so constructed, assembled, & installed so as not to facilitate fraud.

(Paragraph\_\_G-\_\_\_\_\_)